

CPC**COOPERATIVE PATENT CLASSIFICATION****E05D****HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS** ({ foldable tables [A47B 3/00](#); hinged panels [A47B 5/00](#); foldable chairs [A47C 4/00](#); making hinges [B21D 53/40](#), [B21K 13/02](#); making holes for taking-up fittings [B27F 5/12](#); for vehicle tailboards **B60P 1/00D**; for refuse receptacles [B65F 1/1646](#)};

pivotal connections in general [F16C 11/00](#); mounting of stove or range doors [F24C 15/023](#); for folding flat displays of portable computers **G06F 1/16P2HJ**)

WARNING

The following IPC groups are not used in the CPC classification scheme. Subject matter covered by these groups is classified in the following CPC groups:

[E05D 5/16](#) covered by [E05D 5/14](#)

[E05D 7/081](#) covered by [E05D 7/08](#)

[E05D 7/083](#) covered by [E05D 7/082](#)

[E05D 15/04](#) covered by [E05D 15/02](#), [E05D 15/28](#), [E05D 15/40B](#)

[E05D 15/522](#) covered by [E05D 15/52](#)

[E05D 15/523](#) covered by [E05D 15/52](#)

[E05D 15/524](#) covered by [E05D 15/52](#)

E05D 1/00**Pinless hinges; Substitutes for hinges****E05D 1/02**

- . made of one piece

E05D 1/04

- . with guide members shaped as circular arcs

E05D 1/06

- . consisting of two easily-separable parts

E05D 3/00**Hinges with pins** {([E05D 7/08](#) takes precedence)}**E05D 3/02**

- . with one pin

E05D 3/022

- .. {allowing an additional lateral movement, e.g. for sealing}

E05D 3/04

- .. engaging three or more parts, e.g. sleeves, movable relatively to one another for connecting two or more wings to another member

E05D 3/06

- . with two or more pins ([E05D 7/08](#) takes precedence)

E05D 3/08

- .. for swing-doors, i.e. openable by pushing from either side

E05D 3/10

- .. with non-parallel pins

E05D 3/12

- .. with two parallel pins and one arm

E05D 3/122

- ... { Gear hinges}

E05D 3/125

- ... { specially adapted for vehicles}

E05D 3/127

- { for vehicle doors}

E05D 3/14

- .. with four parallel pins and two arms

E05D 3/142

- ... { with at least one of the hinge parts having a cup-shaped fixing part, e.g. for

- attachment to cabinets or furniture ([E05D 11/1021](#) takes precedence)}
- E05D 3/145 . . . { specially adapted for vehicles}
- E05D 3/147 { for vehicle doors}
- E05D 3/16 . . with seven parallel pins and four arms
- E05D 3/18 . . with sliding pins or guides
- E05D 3/183 . . . { with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture}
- E05D 3/186 . . . { Scissors hinges, with two crossing levers and five parallel pins}

E05D 5/00**Construction of single parts, e.g. the parts for attachment**

- E05D 5/02 . Parts for attachment, e.g. flaps
- E05D 5/0207 . . {for attachment to vehicles ([E05D 5/043](#), [E05D 5/062](#) take precedence)}
- E05D 5/0215 . . {for attachment to profile members or the like}
- E05D 5/0223 . . . {with parts, e.g. screws, extending through the profile wall or engaging profile grooves}
- E05D 5/023 {with parts extending through the profile wall}
- E05D 5/0238 {with parts engaging profile grooves}
- E05D 5/0246 . . {for attachment to glass panels}
- E05D 5/0276 . . {for attachment to cabinets or furniture, the hinge having two or more pins ([E05D 5/046](#), [E05D 5/065](#), [E05D 7/125](#) take precedence)}
- E05D 5/04 . . Flat flaps
- E05D 5/043 . . . {specially adapted for vehicles}
- E05D 5/046 . . . {specially adapted for cabinets or furniture}
- E05D 5/06 . . Bent flaps
- E05D 5/062 . . . {specially adapted for vehicles}
- E05D 5/065 . . . {specially adapted for cabinets or furniture}
- E05D 5/08 . . of cylindrical shape
- E05D 5/10 . Pins, sockets or sleeves; Removable pins ([E05D 15/522](#) takes precedence)
- E05D 5/12 . . Securing pins in sockets, movably or not
- E05D 5/121 . . . {Screw-threaded pins}
- E05D 5/125 . . . {Non-removable, snap-fitted pins (removable snap-fitted pins [E05D 7/1022](#), [E05D 7/1055](#))}
- E05D 5/127 . . . {by forcing the pin into the socket ([E05D 5/125](#) takes precedence)}
- E05D 5/128 . . . {the pin having a recess or through-hole engaged by a securing member}
- E05D 5/14 . . Construction of sockets or sleeves
- E05D 5/16 . . . to be secured without special attachment parts on the socket or sleeve

E05D 7/00

Hinges or pivots of special construction (used for special suspension arrangements [E05D 15/00](#); so as to be self-closing [E05F 1/06](#), [E05F 1/12](#); with means for raising wings before being turned [E05F 7/02](#))

- E05D 7/0009 . {Adjustable hinges ([E05D 7/04](#) takes precedence)}

- E05D 7/0018 . . {at the hinge axis}
- E05D 7/0027 . . . {in an axial direction}
- E05D 7/0045 . . . {in a radial direction}
- E05D 7/0054 {by means of eccentric parts}

- E05D 7/009 . {Elongate hinges, e.g. piano-hinges}

- E05D 7/02 . for use on the right-hand as well as the left-hand side; Convertible right-hand or left-hand hinges

- E05D 7/04 . Hinges adjustable relative to the wing or the frame
- E05D 7/0407 . . {the hinges having two or more pins and being specially adapted for cabinets or furniture}
- E05D 7/0415 . . {with adjusting drive means}
- E05D 7/0423 . . . {Screw-and-nut mechanisms ([E05D 7/0407](#), [E05D 7/043](#) take precedence)}
- E05D 7/043 . . {by means of dowel attachments}

- E05D 7/06 . to allow tilting of the members

- E05D 7/08 . for use in suspensions comprising two spigots placed at opposite edges of the wing, especially at the top and the bottom, e.g. trunnions ([E05D 15/266](#) takes precedence)}
- E05D 7/081 . . the pivot axis of the wing being situated near one edge of the wing, especially at the top and bottom, e.g. trunnions
- E05D 7/082 . . the pivot axis of the wing being situated at a considerable distance from the edges of the wing, {e.g. for balanced wings}
- E05D 7/083 . . . with a fixed pivot axis
- E05D 7/084 . . . with a movable pivot axis
- E05D 7/085 with two or more pivot axes, e.g. used at the same time
- E05D 7/086 . . . Braking devices structurally combined with hinges ([braking devices for windows per se E05F 5/00](#))

- E05D 7/10 . to allow easy separation {or connection} of the parts at the hinge axis ([E05D 5/12](#) and [E05D 15/50](#) take precedence); substitutes for hinges [E05D 1/06](#))
- E05D 7/1005 . . {by axially moving free pins, balls or sockets}
- E05D 7/1011 . . . {biased by free springs ([E05D 7/1016](#) takes precedence)}
- E05D 7/1016 . . . {requiring a specific angular position}
- E05D 7/1022 . . . {with snap-fitted pins}
- E05D 7/1044 . . {in an axial direction ([E05D 7/1005](#) takes precedence)}
- E05D 7/105 . . . {requiring a specific angular position}
- E05D 7/1055 . . . {with snap-fitted pins}
- E05D 7/1061 . . {in a radial direction ([E05D 7/1005](#) takes precedence)}
- E05D 7/1066 . . . {requiring a specific angular position}
- E05D 7/1072 {the pin having a non-circular cross-section}
- E05D 7/1077 . . . {with snap-fitted pins}
- E05D 7/1083 . . {facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings}

- E05D 7/12 . to allow easy detachment of the hinge from the wing or the frame {(E05D 15/507 takes precedence)}
- E05D 7/121 . . {specially adapted for vehicles}
- E05D 7/123 . . {specially adapted for cabinets or furniture}
- E05D 7/125 . . . {the hinge having two or more pins}
- E05D 7/14 . Hinges for safes
- E05D 9/00** **Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics**
- E05D 9/005 . {from plastics (E05D 1/02 takes precedence)}
- E05D 11/00** **Additional features or accessories of hinges {(edge protecting devices E06B 3/88)}**
- E05D 11/0009 . {Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames E04F 21/003)}
- E05D 11/0018 . {Anti-tamper devices}
- E05D 11/0027 . . {arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs}
- E05D 11/0054 . {Covers, e.g. for protection}
- E05D 11/0081 . {for transmitting energy, e.g. electrical cable routing}
- E05D 11/02 . Lubricating arrangements
- E05D 11/04 . relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence)
- E05D 11/06 . Devices for limiting the opening movement of hinges
- E05D 11/08 . Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence)
- E05D 11/081 . . {with both radial and axial friction, e.g. conical friction surfaces}
- E05D 11/082 . . {with substantially radial friction, e.g. cylindrical friction surfaces}
- E05D 11/084 . . . {the friction depending on direction of rotation or opening angle of the hinge}
- E05D 11/087 . . {with substantially axial friction, e.g. friction disks}
- E05D 11/10 . Devices for preventing movement between relatively-movable hinge parts
- E05D 11/1007 . . {with positive locking}
- E05D 11/1014 . . {for maintaining the hinge in only one position, e.g. closed}
- E05D 11/1021 . . . {the hinge having two or more pins and being specially adapted for cabinets or furniture}
- E05D 11/1028 . . {for maintaining the hinge in two or more positions, e.g. intermediate or fully open}
- E05D 11/1042 . . . {the maintaining means being a cam and a torsion bar, e.g. motor vehicle hinge mechanisms}

- E05D 11/105 . . . {the maintaining means acting perpendicularly to the pivot axis}
- E05D 11/1057 {specially adapted for vehicles ([E05D 11/1064](#) takes precedence)}
- E05D 11/1064 {with a coil spring perpendicular to the pivot axis}
- E05D 11/1071 {specially adapted for vehicles}
- E05D 11/1078 . . . {the maintaining means acting parallel to the pivot}
- E05D 11/1085 {specially adapted for vehicles}

E05D 13/00

Accessories for sliding or lifting wings, e.g. pulleys, safety catches ({ closers or openers for horizontally sliding wings [E05F 1/02](#), [E05F 1/08](#); counterbalance devices { for swinging wings}[E05F 1/00](#), [E05F 3/00](#))

- E05D 13/003 . {Anti-dropping devices ([E05D 13/1223](#), [E05D 13/1246](#), [E05D 13/1269](#), [E05D 13/1292](#) take precedence)}
- E05D 13/006 . . {fixed to the wing, i.e. safety catches}
- E05D 13/04 . Fasteners specially adapted for holding sliding wings open ({**E05D 15/06B2** takes precedence}; for holding wings closed [E05C](#))
- E05D 13/06 . . with notches { for vertically sliding wings}
- E05D 13/08 . . acting by friction { for vertically sliding wings}
- E05D 13/10 . Counterbalance devices
- E05D 13/12 . . with springs
- E05D 13/1207 . . . {with tension springs}
- E05D 13/1215 {specially adapted for overhead wings ([E05D 13/1223](#) takes precedence)}
- E05D 13/1223 {Spring safety devices}
- E05D 13/123 . . . {with compression springs}
- E05D 13/1238 {specially adapted for overhead wings ([E05D 13/1246](#) takes precedence)}
- E05D 13/1246 {Spring safety devices}
- E05D 13/1253 . . . {with canted-coil torsion springs}
- E05D 13/1261 {specially adapted for overhead wings ([E05D 13/1269](#) takes precedence)}
- E05D 13/1269 {Spring safety devices}
- E05D 13/1276 . . . {with coiled ribbon springs, e.g. constant force springs ([E05D 13/1253](#) takes precedence)}
- E05D 13/1284 {specially adapted for overhead wings ([E05D 13/1292](#) takes precedence)}
- E05D 13/1292 {Spring safety devices}
- E05D 13/14 . . with weights
- E05D 13/145 . . . {specially adapted for overhead wings}

E05D 15/00

Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

- E05D 15/02 . for revolving wings
- E05D 15/04 . with arms fixed on the wing pivoting about an axis outside of the wing

- E05D 15/06 . for wings sliding horizontally more or less in their own plane
- E05D 15/0604 .. {allowing an additional movement ([E05D 15/10](#) takes precedence; raising wings before sliding [E05D 15/565](#))}
- E05D 15/0608 ... {caused by track lay-out}
- E05D 15/0613 {with multi-directional trolleys}
- E05D 15/0617 .. {of cantilever type}
- E05D 15/0621 .. {Details, e.g. suspension or supporting guides ([E05D 15/0604](#), [E05D 15/08](#) to [E05D 15/14](#) take precedence)}
- E05D 15/0626 ... {for wings suspended at the top}
- E05D 15/063 {on wheels with fixed axis}
- E05D 15/0634 { with height adjustment}
- E05D 15/0639 { by vertical bolts}
- E05D 15/0643 {on balls or floating rollers}
- E05D 15/0647 {on sliding blocks}
- E05D 15/0652 {Tracks ([E05D 15/063](#) to [E05D 15/0647](#) and [E05D 15/0656](#) take precedence)}
- E05D 15/0656 {Bottom guides}
- E05D 15/066 .. {for wings supported at the bottom}
- E05D 15/0665 {on wheels with fixed axis}
- E05D 15/0669 { with height adjustment}
- E05D 15/0673 { by vertical bolts}
- E05D 15/0678 {on balls or floating rollers}
- E05D 15/0682 {on sliding blocks}
- E05D 15/0686 {Tracks ([E05D 15/0665](#) to [E05D 15/0682](#) and [E05D 15/0691](#) take precedence)}
- E05D 15/0691 {Top guides}
- E05D 15/08 .. consisting of two or more independent parts movable each in its own guides
- E05D 15/10 .. movable out of one plane into a second parallel plane
- E05D 15/1002 ... {specially adapted for use in railway-cars or mass transit vehicles ([E05D 15/1007](#), [E05D 15/1023](#), [E05D 15/1044](#), [E05D 15/1068](#) take precedence)}
- E05D 15/1005 ... {the wing being supported on arms movable in horizontal planes}
- E05D 15/1007 {specially adapted for use in railway-cars or mass transit vehicles}
- E05D 15/101 {specially adapted for vehicles ([E05D 15/1007](#) takes precedence)}
- E05D 15/1013 {specially adapted for windows}
- E05D 15/1015 {with an intermediate tilt position}
- E05D 15/1021 ... {involving movement in a third direction, e.g. vertically}
- E05D 15/1023 {specially adapted for use in railway-cars or mass transit vehicles}
- E05D 15/1042 ... {with transversely moving carriage ([E05D 15/1065](#) takes precedence)}
- E05D 15/1044 {specially adapted for use in railway-cars or mass transit vehicles}
- E05D 15/1047 {specially adapted for vehicles ([E05D 15/1044](#) takes precedence)}
- E05D 15/1065 ... {with transversely moving track}
- E05D 15/1068 {specially adapted for use in railway-cars or mass transit vehicles}

- E05D 15/1081 { specially adapted for vehicles ([E05D 15/1068](#) takes precedence)}
- E05D 15/12 . . consisting of parts connected at their edges
- E05D 15/14 . . with movable arms situated in the plane of the wing

- E05D 15/16 . for wings sliding vertically more or less in their own plane
- E05D 15/165 . . {Details, e.g. sliding or rolling guides ([E05D 15/18](#) to [E05D 15/24](#) take precedence)}
- E05D 15/18 . . consisting of two or more independent parts, movable each in its own guides
- E05D 15/20 . . movable out of one plane into a second parallel plane
- E05D 15/22 . . allowing an additional movement {([E05D 15/20](#) takes precedence)}
- E05D 15/24 . . consisting of parts connected at their edges
- E05D 15/242 . . . {Hinge connections between the parts}
- E05D 15/244 . . . {Upper part guiding means}
- E05D 15/246 {with additional guide rail for producing an additional movement}
- E05D 15/248 {with lever arms for producing an additional movement}

- E05D 15/26 . for folding wings
- E05D 15/262 . . {folding vertically (**E05D 15/26B1**, **E05D 15/26B2B** take precedence)}
- E05D 15/264 . . {for bi-fold wings}
- E05D 15/266 . . . {comprising two pivots placed at opposite edges of the wing}

- E05D 15/28 . supported on arms movable in horizontal plane
- E05D 15/30 . . with pivoted arms and sliding guides
- E05D 15/32 . . with two pairs of pivoted arms
- E05D 15/34 . . . with wings opening parallel to themselves

- E05D 15/36 . moving along slide-ways so arranged that one guide-member of the wing moves in a direction substantially perpendicular to the movement of another guide member
- E05D 15/38 . . for upwardly-moving wings, e.g. up-and-over doors

- E05D 15/40 . supported on arms movable in vertical planes
- E05D 15/401 . . {specially adapted for overhead wings ([E05D 15/403](#) to [E05D 15/46](#) take precedence)}
- E05D 15/403 . . {with arms fixed on the wing pivoting about an axis outside the wing}
- E05D 15/405 . . {with curved arms fixed on the wing, rolling on a support}
- E05D 15/406 . . {with pivoted arms and sliding guides ([E05D 15/42](#), [E05D 15/44](#) take precedence)}
- E05D 15/408 . . . {with sliding guides fixed to the wing}
- E05D 15/42 . . with pivoted arms and horizontally-sliding guides
- E05D 15/425 . . . {specially adapted for overhead wings}
- E05D 15/44 . . with pivoted arms and vertically-sliding guides
- E05D 15/445 . . . {specially adapted for overhead wings}
- E05D 15/46 . . with two pairs of pivoted arms
- E05D 15/463 . . . {specially adapted for overhead wings}
- E05D 15/466 . . . {specially adapted for windows}

- E05D 15/48 . allowing alternative movements ({[E05D 15/0604](#) takes precedence}; for vertically-sliding wings [E05D 15/22](#))
- E05D 15/50 . . for opening at either of two opposite edges {(hinges or pivots of special construction to allow easy separation or connection of the parts at the hinge axis [E05D 7/10](#); to allow easy detachment of the hinge from the wing or the frame [E05D 7/12](#))}
- E05D 15/502 . . . {by axial separation of the hinge parts at the hinge axis}
- E05D 15/505 . . . {by radial separation of the hinge parts at the hinge axis}
- E05D 15/507 . . . {by detachment of the hinge from the wing or the frame}
- E05D 15/52 . . for opening about a vertical as well as a horizontal axis
- E05D 15/5202 . . . {with non-horizontally extending checks}
- E05D 15/5205 . . . {with horizontally-extending checks}
- E05D 15/5208 . . . {with means for transmitting movements between vertical and horizontal sliding bars, rods or cables}
- E05D 15/5211 . . . {Concealed suspension fittings}
- E05D 15/5214 . . . {Corner supports}
- E05D 15/5217 . . . {Tilt-lock devices}
- E05D 15/522 . . . with disconnecting means for the appropriate pivoting parts
- E05D 15/523 using movable rods
- E05D 15/524 Actuating mechanisms
- E05D 15/526 . . . Safety devices ({[E05D 15/5217](#) takes precedence})
- E05D 15/54 . . for opening both inwards and outwards
- E05D 15/56 . with successive different movements {(raising wings before being turned [E05F 7/02](#))}
- E05D 15/565 . . {for raising wings before sliding}
- E05D 15/58 . . with both swinging and sliding movements
- E05D 15/581 . . . {the swinging axis laying in the sliding direction ([E05D 15/1015](#) takes precedence)}
- E05D 15/582 . . . {with horizontal swinging axis ([E05D 15/581](#) takes precedence)}
- E05D 15/583 {specially adapted for overhead wings}

E05D 2001/00 Pinless hinges; Substitutes for hinges

- E05D 2001/04 . with guide members shaped as circular arcs
- E05D 2001/045 . . for telescopic hinges

E05D 2003/00 Hinges with pins ({[E05D 7/08](#) takes precedence})

- E05D 2003/02 . with one pin
- E05D 2003/025 . . having three knuckles
- E05D 2003/027 . . . the end knuckles being mutually connected

- E05D 2003/06 . with two or more pins ([E05D 7/08](#) takes precedence)
- E05D 2003/16 .. with seven parallel pins and four arms
- [E05D 2003/163](#) ... Horizontal pivot-axis
- [E05D 2003/166](#) ... Vertical pivot-axis

E05D 2005/00**Construction of single parts, e.g. the parts for attachment**

- E05D 2005/02 . Parts for attachment, e.g. flaps
- E05D 2005/0246 .. {for attachment to glass panels}
- [E05D 2005/0253](#) ... the panels having conical or stepped recesses
- [E05D 2005/0261](#) ... connecting two or more glass panels
- [E05D 2005/0269](#) the panels being coplanar
- [E05D 2005/0284](#) .. for embedding in concrete or masonry
- [E05D 2005/0292](#) .. for passing through insulating layers
- E05D 2005/06 .. Bent flaps
- [E05D 2005/067](#) ... gooseneck shaped
- E05D 2005/10 . Pins, sockets or sleeves; Removable pins ([E05D 15/522](#) takes precedence)
- [E05D 2005/102](#) .. Pins
- [E05D 2005/104](#) ... characterised by the materials
- [E05D 2005/106](#) ... with non-cylindrical portions
- [E05D 2005/108](#) ... with elastically deformable parts
- E05D 2005/12 .. Securing pins in sockets, movably or not
- E05D 2005/121 ... {Screw-threaded pins}
- [E05D 2005/122](#) externally threaded
- [E05D 2005/124](#) internally threaded
- E05D 2005/14 .. Construction of sockets or sleeves
- [E05D 2005/145](#) ... with elastically deformable parts

E05D 2007/00**Hinges or pivots of special construction** (used for special suspension arrangements [E05D 15/00](#); so as to be self-closing [E05F 1/06](#), [E05F 1/12](#); with means for raising wings before being turned [E05F 7/02](#))

- E05D 2007/0009 . {Adjustable hinges ([E05D 7/04](#) takes precedence)}
- E05D 2007/0018 .. {at the hinge axis}
- E05D 2007/0027 ... {in an axial direction}
- [E05D 2007/0036](#) with axially fixed hinge pins
- E05D 2007/0045 ... {in a radial direction}
- E05D 2007/0054 {by means of eccentric parts}
- [E05D 2007/0063](#) Eccentric hinge pins
- [E05D 2007/0072](#) with sliding sleeves
- [E05D 2007/0081](#) with swinging or rolling sleeves

- E05D 2007/04 . Hinges adjustable relative to the wing or the frame
- E05D 2007/043 .. {by means of dowel attachments}
- E05D 2007/0438 ... with bolts fixedly mounted on the hinge part
- E05D 2007/0446 ... with threaded bolts fixedly mounted on the hinge part
- E05D 2007/0453 ... with threaded sleeves
- E05D 2007/0461 .. in angular arrangement to the wing or the frame
- E05D 2007/0469 .. in an axial direction
- E05D 2007/0476 .. Pocket hinges
- E05D 2007/0484 .. in a radial direction
- E05D 2007/0492 .. in three directions

- E05D 2007/10 . to allow easy separation {or connection} of the parts at the hinge axis ({E05D 5/12 and E05D 15/50 take precedence}; substitutes for hinges E05D 1/06)
- E05D 2007/1005 .. {by axially moving free pins, balls or sockets}
- E05D 2007/1027 ... by axially moving free pins
- E05D 2007/1033 ... by axially moving free balls
- E05D 2007/1038 ... by axially moving free sockets
- E05D 2007/1083 .. {facilitating simultaneous assembly of a plurality of hinges, e.g. for mounting heavy wings}
- E05D 2007/1088 ... using hinge pins having different lengths
- E05D 2007/1094 .. Guiding devices therefor

- E05D 2007/12 . to allow easy detachment of the hinge from the wing or the frame {(E05D 15/507 takes precedence)}
- E05D 2007/126 .. in an axial direction
- E05D 2007/128 .. in a radial direction

- E05D 2011/00 Additional features or accessories of hinges {(edge protecting devices E06B 3/88)}**

- E05D 2011/0018 . {Anti-tamper devices}
- E05D 2011/0027 .. {arranged on or near the hinge and comprising parts interlocking as the wing closes, e.g. security studs}
- E05D 2011/0036 ... near the hinge
- E05D 2011/0045 ... on the hinge

- E05D 2011/0054 . {Covers, e.g. for protection}
- E05D 2011/0063 .. for screw-heads or bolt-heads
- E05D 2011/0072 .. for the gap between hinge parts

- E05D 2011/009 . Impact absorbing hinges for vehicle doors

- E05D 2011/04 . relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence)
- E05D 2011/045 .. located in line with the hinge axis

- E05D 2011/08 . Friction devices between relatively-movable hinge parts (E05D 7/086 takes

precedence)

- E05D 2011/082 .. {with substantially radial friction, e.g. cylindrical friction surfaces}
- E05D 2011/085 ... the friction depending on the opening angle
- E05D 2011/088 .. with automatic disengagement
- E05D 2011/10 . Devices for preventing movement between relatively-movable hinge parts
- E05D 2011/1028 .. {for maintaining the hinge in two or more positions, e.g. intermediate or fully open}
- E05D 2011/1035 ... with circumferential and evenly distributed detents around the pivot-axis
- E05D 2011/1092 .. the angle between the hinge parts being adjustable

E05D 2015/00

Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

- E05D 2015/06 . for wings sliding horizontally more or less in their own plane
- E05D 2015/0621 .. {Details, e.g. suspension or supporting guides ([E05D 15/0604](#), [E05D 15/08](#) to [E05D 15/14](#) take precedence)}
- E05D 2015/0695 ... Magnetic suspension or supporting means
- E05D 2015/10 .. movable out of one plane into a second parallel plane
- E05D 2015/1018 ... with the track rotating around its axis
- E05D 2015/1026 ... accessories, e.g. sliding or rolling guides, latches
- E05D 2015/1028 ... with only the wing moving transversely
- E05D 2015/1031 the wing supported on arms extending from the carriage
- E05D 2015/1034 the carriage having means for preventing rotation of the wing
- E05D 2015/1036 the arms being movable in vertical, e.g. transverse, planes
- E05D 2015/1039 the wing sliding transversely on the carriage
- E05D 2015/1042 ... {with transversely moving carriage ([E05D 15/1065](#) takes precedence)}
- E05D 2015/1049 the carriage swinging or rotating in a transverse plane
- E05D 2015/1052 transversely over-dimensioned track sections or carriage
- E05D 2015/1055 with slanted or curved track sections or cams
- E05D 2015/1057 the carriage swinging or rotating in those track sections
- E05D 2015/106 transversely orientated track sections
- E05D 2015/1063 disconnecting the carriage from the track
- E05D 2015/1065 ... {with transversely moving track}
- E05D 2015/1071 the track being directly linked to the fixed frame, e.g. slidingly
- E05D 2015/1073 rocking transversely
- E05D 2015/1076 swinging transversely, e.g. on arms
- E05D 2015/1078 swinging or rotating in a horizontal plane
- E05D 2015/1084 the carriage being directly linked to the fixed frame, e.g. slidingly
- E05D 2015/1086 swingingly, e.g. on arms
- E05D 2015/1089 the carriage having means for preventing rotation of the wing
- E05D 2015/1092 the carriage swinging or rotating in curved track sections
- E05D 2015/1094 disconnecting itself from the track

- E05D 2015/1097 with the carriage and track forming a telescopic element
- E05D 2015/16 . for wings sliding vertically more or less in their own plane
- E05D 2015/22 . . allowing an additional movement [{\(E05D 15/20 takes precedence\)}](#)
- E05D 2015/225 . . . specially adapted for overhead wings
- E05D 2015/26 . for folding wings
- E05D 2015/268 . . the wings being successively folded
- E05D 2015/48 . allowing alternative movements [{\(E05D 15/0604 takes precedence\); for vertically-sliding wings E05D 15/22\)}](#)
- E05D 2015/482 . . for panic doors
- E05D 2015/485 . . Swinging or sliding movements
- E05D 2015/487 . . Tilting or swinging movements
- E05D 2015/52 . . for opening about a vertical as well as a horizontal axis
- E05D 2015/526 . . . Safety devices [{\(E05D 15/5217 takes precedence\)}](#)
- E05D 2015/5263 acting parallel to the plane of the wing
- E05D 2015/5266 acting perpendicular to the plane of the wing
- E05D 2015/56 . with successive different movements [{\(raising wings before being turned E05F 7/02\)}](#)
- E05D 2015/58 . . with both swinging and sliding movements
- E05D 2015/585 . . . with stationary hinge parts
- E05D 2015/586 . . . with travelling hinge parts
- E05D 2015/587 . . . with axially separating hinge parts
- E05D 2015/588 . . . with radially separating hinge parts
- E05D 2700/00 Hinges or other suspension devices especially for doors or windows**
- E05D 2700/02 . Hinges with one pivot axis and one bearing surface
- E05D 2700/04 . Hinges with one pivot axis and more than one bearing surface
- E05D 2700/10 . Various door and window fittings, e.g. suspension devices for double hung windows or screens
- E05D 2700/12 . Suspension devices for doors or windows movable in a direction perpendicular to their plane or pivotable about an axis being situated at a considerable distance from the edge of the wing by means of pivot arms